Operating and installation instructions

Combined fridge-freezer with BioFresh compartment

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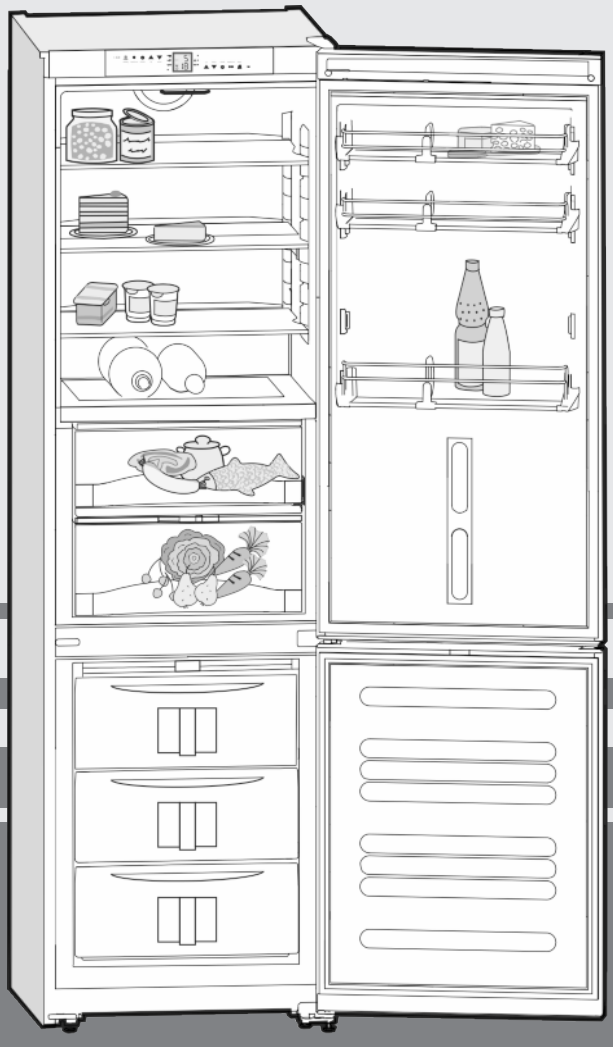

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The manufacturer works constantly on the further development of all the types and models. Therefore please understand that we have to reserve the right to make design, equipment and technical modifications.

To get to know all the benefits of your new appliance, please read the information contained in these instructions carefully.

The instructions apply to several models. Differences may occur. Text relating only to specific appliances is marked with an asterisk (*).

Instructions for action are marked with a ▶, the results of action are marked with a ▷.

1 Appliance at a glance

1.1 Description of appliance and equipment

Note

- ▶ Place food inside the appliance as shown in the diagram. This allows the appliance to save energy during operation.
- ▶ Shelves, drawers and baskets are arranged for optimum energy efficiency on delivery.

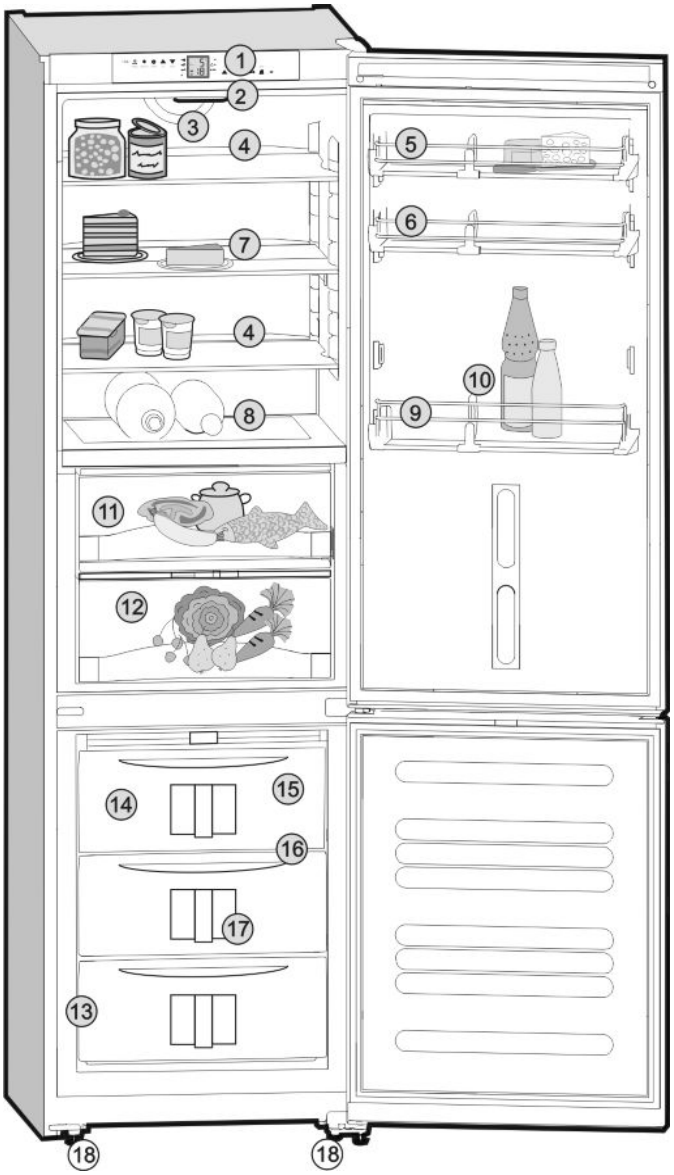

Fig. 1

(1) Bedien- und Kontrollelemente
(2) Interior light
(3) Fan
(4) Glass shelf, relocatable
(5) Rack for tinned food
(6) Rack for tinned food, relocatable
(7) Sectioned glass shelf, relocatable
(8) Separating plate with bottle shelf
(9) Bottle rack, relocatable
(10) Bottle holder
(11) BioFresh compartment,, DrySafe
(12) BioFresh compartment, regulable, HydroSafe
(13) Type plate
(14) Freezer compartment
(15) Cold storage accumulators
(16) VarioSpace
(17) Information system
(18) Adjustable-height feet, transport grips at front, transport castors at back

1.2 Range of appliance use

Intended use

The appliance is suitable solely for cooling food in a domestic environment or similar. This includes use in, for example

- in staff kitchenettes, bed and breakfast establishments,

- by guests in country cottages, hotels, motels and other accommodation,
- for catering and similar services in the wholesale trade.

Use the appliance solely in a domestic type of environment. All other applications are inadmissible.

Foreseeable misuse

The following applications are expressly prohibited:

- Storage and cooling of medicines, blood plasma, laboratory compounds or similar materials and products subject to the Medical Devices Directive 2007/47/EC
- Use in potentially explosive areas

Improper use of the appliance can lead to damage to or spoilage of the stored goods.

Climate rating definitions

The appliance is set to operate within specific ambient temperature limits according to its climate rating. The correct climate rating for your appliance is indicated on the type plate.

Note

▶ Compliance with the ambient temperatures indicated is required, otherwise the cooling performance is reduced.

Climate rating	for ambient temperatures of
SN	10 °C to 32 °C
N	16 °C to 32 °C
ST	16 °C to 38 °C
T	16 °C to 43 °C

1.3 Conformity

The refrigerant circuit is tested for leakage. The appliance complies with the relevant safety regulations and EC Directives 2006/95/EC, 2004/108/EC, 2009/125/EC and 2010/30/EU.

The BioFresh compartment satisfies the requirements of a chill compartment to EN ISO 15502.

Note for test institutions:

Tests are to be carried out according to the applicable standards and guidelines.
Preparation and testing of the appliances must be carried out taking the **manufacturer's loading plans** and the **notes in the operating manual** into account.

1.4 External dimensions of the appliance

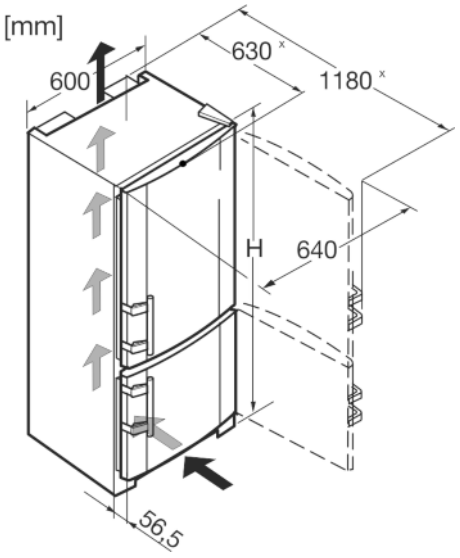

Fig. 2

Model	Appliance height H (mm)
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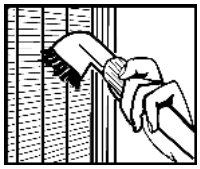
x For appliances supplied with wall spacers, the measurement increases by 35 mm (see 4.2) .

1.5 Saving energy

- Always ensure good ventilation. Do not cover ventilation openings or grille.
- Always keep fan louvres clear.
- Do not place appliance in areas of direct sunlight or next to a stove, heater or similar object.
- The energy consumption depends on the installation conditions, e.g. the ambient temperature (see 1.2) .
- Keep the time the appliance is open to a minimum.
- The lower the temperature setting, the higher the power consumption.
- Store food logically. (see Appliance at a glance).
- Ensure that all food is well packed and covered for storage. This will prevent frost from forming.
- Remove food as needed in order that it does not warm too much.
- First cool warm food to room temperature before storing it .
- Defrost frozen food in the refrigerator.
- Use the vacation function for longer vacation periods (see 5.5.4) .

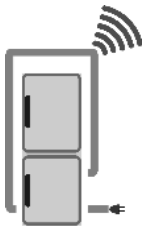
Accumulated dust increases the energy consumption:

- Once a year, dust the refrigerating unit together with the metal grille of the heat exchanger at the back of the appliance.



1.6 HomeDialog

Depending on model and options, the HomeDialog system can be used to network a number of Liebherr appliances (situated, for example, in the basement) with a main appliance (sited, for example, in the kitchen) and control them via the latter. You will find more information on the benefits, requirements and principle of operation on the internet at www. liebherr.com.



2 General safety information

Danger for the user:

- This appliance can be used by children of 8 years old and over, and also by persons with restricted physical, sensory or mental capacity or lack of experience and knowledge, if they are supervised or have been instructed on safe use of the appliance and understand the resulting risks. Children must not be allowed to play with the appliance. Cleaning and user maintenance must not be carried out by children without supervision.
- When disconnecting the appliance from the supply, always take hold of the plug. Do not pull the cable.
- In the event of a fault pull out the mains plug or deactivate the fuse.
- Do not damage the mains power cable. Do not operate the appliance with a defective mains power cable.
- Have any repairs to or intervention in the appliance, and any change of the mains power cable, carried out by the customer service only or by other specialised personnel trained for the purpose.
- Only assemble, connect and dispose of the appliance according to the instructions.
- Please keep these instructions in a safe place and pass them on to any subsequent owners.
- Special-purpose lamps (incandescent lamps, LEDs, fluorescent tubes) in the appliance serve to illuminate the appliance interior and are not suited for room illumination.

Fire hazard:

- The refrigerant R 600a is environmentally friendly but flammable. Escaping refrigerant may ignite.
  - Do not damage the refrigerant circuit pipes.
  - Do not allow naked flames or ignition sources to enter the appliance.
  - Do not use any electrical appliances in the interior (e.g. steam cleaners, heaters, ice cream maker etc.).
  - If refrigerant escapes: remove any naked flames or sources of ignition from the leakage area. Ventilate the room well. Notify the after-sales service.
- Do not store explosives or sprays using combustible propellants such as butane, propane, pentane, etc. in the appliance. To identify these spray cans, look for the list of contents printed on the can, or a flame symbol. Gases possibly escaping may ignite due to electrical components.
- Keep burning candles, lamps and other items with naked flames away from the appliance so that they do not set the appliance on fire.
- Please be sure to store alcoholic drinks or other packaging containing alcohol in tightly closed containers. Any alcohol that leaks out may be ignited by electrical components.

Danger of tipping and falling:

- Do not misuse the plinth, drawers, doors etc. as a step or for support. This applies particularly to children.

Danger of food poisoning:

- Do not consume food which has been stored too long.

Danger of frostbite, numbness and pain:

- Avoid lasting skin contact with cold surfaces or refrigerated/frozen food or take protective steps, e.g. wear gloves. Do not consume ice cream, water ice or ice cubes immediately and do not consume them too cold.

Danger of injury and damage:

- Hot steam can lead to injury. Do not use electrical heating or steam cleaning equipment, open flames or defrosting sprays to defrost.
- Do not use sharp implements to remove the ice.

Danger of crushing:

- Do not hold the hinge when opening and closing the door. Fingers may get caught.

Please observe the specific information in the other sections:

	DANGER	identifies a situation involving direct danger which, if not obviated, may result in death or severe bodily injury.
	WARNING	identifies a dangerous situation which, if not obviated, may result in death or severe bodily injury.
	CAUTION	identifies a dangerous situation which, if not obviated, may result in minor or medium bodily injury.
	NOTICE	identifies a dangerous situation which, if not obviated, may result in damage to property.

	Note	identifies useful information and tips.

3 Controls and displays

3.1 Operating and control elements

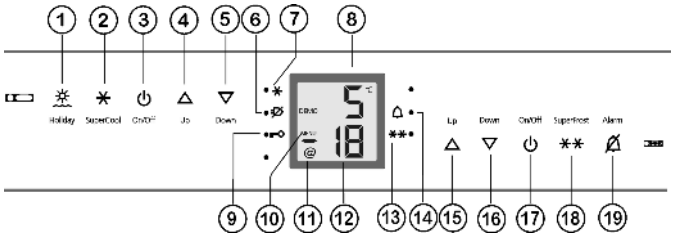


Fig. 3

(1) Holiday button
(2) SuperCool button
(3) On/Off button, refrigerator compartment
(4) Up setting button, refrigerator compartment
(5) Down setting button, refrigerator compartment
(6) Power failure symbol
(7) SuperCool symbol
(8) Refrigerator compartment temperature display
(9) Child lock symbol
(10) Menu symbol
(11) HomeDialog symbol
(12) Freezer compartment temperature display
(13) SuperFrost symbol
(14) Alarm symbol
(15) Up setting button, freezer compartment
(16) Down setting button, freezer compartment
(17) On/Off button, freezer compartment
(18) SuperFrost button
(19) Alarm button

3.2 Temperature display

The following are displayed in normal operation:

- the warmest freezing temperature
- the average cooling temperature

The freezer compartment temperature display flashes:

- the temperature setting is being changed
- after switch-on the temperature is not yet cold enough
- the temperature has risen several degrees

Dashes flash in the display:

- the freezer temperature is above 0 °C.

The following displays indicate malfunction. Possible causes and corrective action (see Malfunction).

- F0 to F9
- The power failure symbol flashes.

4 Putting into operation

4.1 Transporting the appliance

CAUTION
Risk of injury and danger of damage as a result of incorrect transport!
▶ Transport the appliance in a packed condition.
▶ Transport the appliance upright.
▶ Do not transport the appliance without assistance.

4.2 Installing the appliance

WARNING
Fire hazard due to dampness!
If live parts or the mains lead become damp this may cause short circuits.
▶ The appliance is designed for use in enclosed areas. Do not operate the appliance outdoors or in areas where it is exposed to splash water or damp conditions.

WARNING
Risk of fire due to short circuit!
If the mains cable/connector of the appliance or of another appliance touch the rear of the appliance, the mains cable/connector may be damaged by the appliance vibrations, leading to a short circuit.
▶ Stand the appliance so that it is not touched by connectors or main cables.
▶ Do not plug the appliance or any others into sockets located near the rear of the appliance.

WARNING
Fire hazard due to refrigerant!
The refrigerant R 600a is environmentally friendly but flammable. Escaping refrigerant may ignite.
▶ Do not damage the piping of the refrigeration circuit.

WARNING
Fire hazard and danger of damage!
▶ Do not place appliances emitting heat e.g. microwaves, toasters etc. on the appliance!

WARNING
Blocked ventilation openings pose a risk of fire and damage!
▶ Always keep the ventilation openings clear. Always ensure that the appliance is properly ventilated!

NOTICE
Risk of damage due to condensate!
▶ Do not install the appliance directly alongside a further refrigerator/freezer.

❑ In the event that the appliance is damaged, contact the supplier immediately before connecting to the mains.
❑ The floor at the site must be flat and level.
❑ Do not install the appliance in a location where it is exposed to direct radiation of the sun, next to a cooker, heater and similar.
❑ Always stand the appliance backed directly to the wall using the enclosed wall spacers (see below).
❑ The appliance may be moved only when it is empty.
❑ Do not install the appliance without assistance.
❑ The more R 600a refrigerant there is in the appliance, the larger the room in which the appliance is standing needs to be. In rooms that are too small, a flammable mix of gas and air may be created if there is a leak. According to the EN 378 standard, every 11 g of R 600a refrigerant requires at least 1 m^3 space in the room for the appliance. The amount of refrigerant in your appliance is on the type plate inside the appliance.
▶ Detach the connecting cable from the rear of the appliance, removing the cable holder at the same time because otherwise there will be vibratory noise!

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▶ Remove the protective film from the outside of the appliance.

NOTICE
The stainless steel doors are provided with a high-quality surface coating and must not be treated using the accompanying care product.

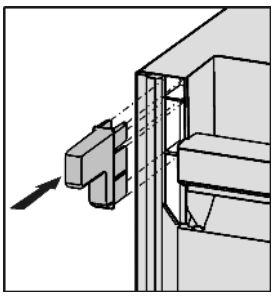
Otherwise the surface coating will be affected.

▶ Wipe the coated **door surfaces** using a soft, clean cloth only.
▶ Apply a stainless steel cleaner only to the **stainless steel side walls** evenly, wiping with the grain. Subsequent cleaning becomes easier as a result.
▶ Wipe **side walls with a paint finish** using a soft, clean cloth only.

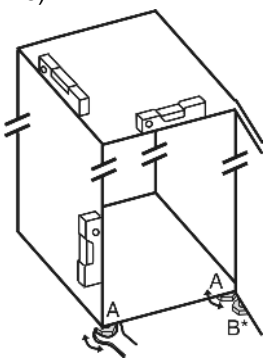
▶ Remove the protective film from the decorative trims and drawer fronts.
▶ Remove all transit supports.

The spacers supplied with some appliances must be used to achieve the stated energy consumption. These will extend the depth of the appliance by approx. 35 mm. The appliance is fully functional if the spacers are not used, but does have a slightly higher energy consumption.

▶ In the case of an appliance with enclosed wall spacers, mount the wall spacers on the back of the appliance at the top left and right.



▶ Dispose of packaging material (see 4.5) .
▶ Align the appliance so that it stands firmly and on a level by applying the accompanying spanner to the adjustable-height feet (A) and using a spirit level.
▶ Then support the door: Extend the adjustable foot at the turn hinge (B) until it rests on the floor and then make a further 90° turn.



Note
▶ Clean the appliance (see 6.2) .

If the appliance is installed in a very damp environment, condensate may form on the outside of the appliance.
▶ Always see to good ventilation at the installation site.

4.3 Changing over the door hinges

You can change over the door hinges if necessary.

Ensure that the following tools are to hand:

❑ Torx® 25
❑ Torx® 15
❑ Screwdriver
❑ Cordless screwdriver, if necessary
❑ Second person for fitting work, if needed

4.3.1 Detaching the upper door

Note
▶ Remove any food from the door racks before removing the door, so that no food falls out.

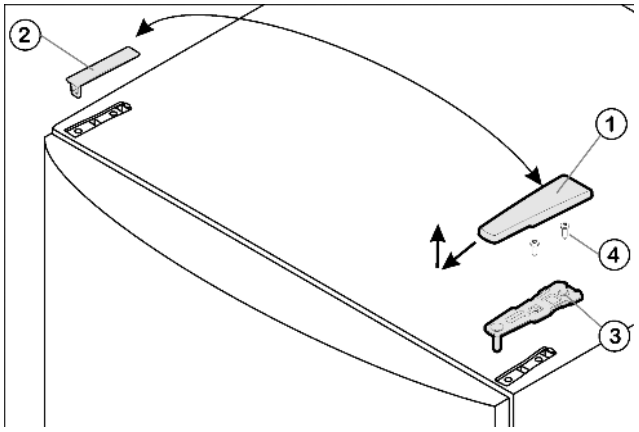


Fig. 4

▶ Close the upper door.
▶ Pull off the cover *Fig. 4 (1)* forwards and upwards.
▶ Lift off the cover *Fig. 4 (2)*.

CAUTION
Risk of injury if the door tips!
▶ Take good hold of the door.
▶ Set down the door carefully.

▶ Unscrew the upper turn hinge *Fig. 4 (3)*(2x Torx® 25) *Fig. 4 (4)* and lift it off.
▶ Lift up the upper door and set it aside.

4.3.2 Detaching the lower door

▶ Close the lower door.
▶ Draw the middle bearing pin *Fig. 5 (11)* out of the turn hinge and lower door.
▶ Remove the plastic cap *Fig. 5 (10)*.

CAUTION
Risk of injury if the door tips!
▶ Take good hold of the door.
▶ Set down the door carefully.

▶ Open the lower door.
▶ Unscrew the middle turn hinge (2x Torx® 25). *Fig. 5 (13)*
▶ Lift up the door and set it aside.

4.3.3 Transferring the middle bearing elements

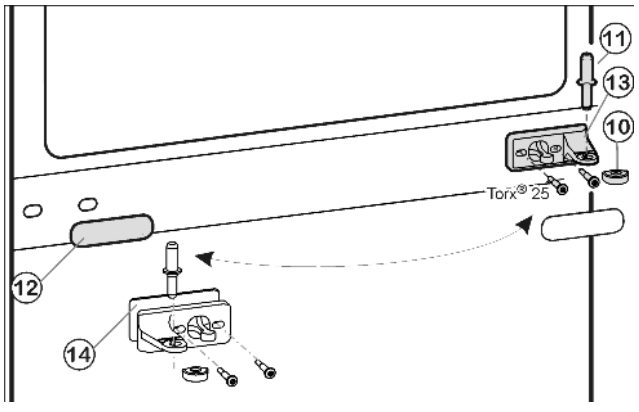


Fig. 5

*** Depending on model and options**

- ▶ Carefully detach the cover panel *Fig. 5 (12)*.
- ▶ Turn the middle turn hinge *Fig. 5 (13)* with the washer *Fig. 5 (14)* through 180° and screw it firmly into place on the new hinge side **(with 4 Nm)**.
- ▶ Turn the cover panel *Fig. 5 (12)* through 180° and snap it into place again on the new handle side.

4.3.4 Transferring the lower bearing elements

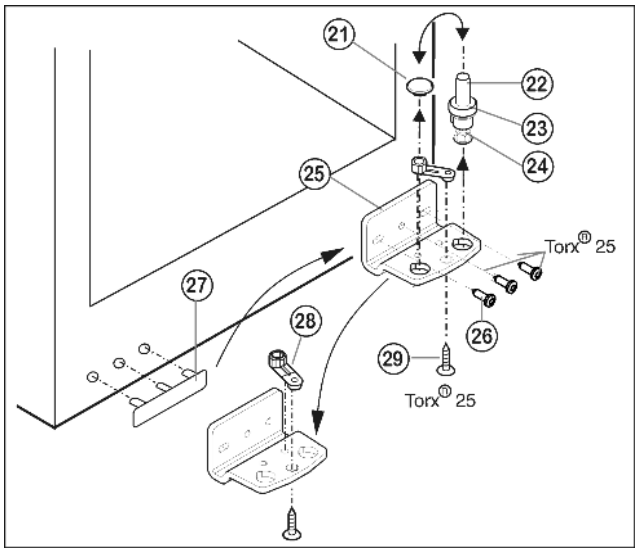


Fig. 6

- ▶ Lift out the bearing pin *Fig. 6 (22)* together with washer *Fig. 6 (23)* and foot *Fig. 6 (24)*.
- ▶ Lift off the stopper *Fig. 6 (21)*.
- ▶ Unscrew *Fig. 6 (26)* the turn hinge *Fig. 6 (25)*.
- ▶ Unscrew *Fig. 6 (29)* the bearing element *Fig. 6 (28)*, transfer it to the opposite location hole of the turn hinge and screw it firmly into place.
- ▶ Carefully lift off the cover on the handle side *Fig. 6 (27)* and transfer it to the opposite side.
- ▶ Screw the turn hinge *Fig. 6 (25)* firmly into place on the new hinge side, possibly using a cordless screwdriver **(with 4 Nm)**.
- ▶ Re-insert the stopper *Fig. 6 (21)* into the other hole.
- ▶ Re-insert the bearing pin *Fig. 6 (22)* together with washer and foot. In so doing, pay attention that the locating lug points backwards

4.3.5 Transferring the handles

On both the upper and lower door:

- ▶ Transfer the spring clamp *Fig. 7 (31)*: Depress the latch nose and pull the spring clamp off over it.
- ▶ Slide the spring clamp into place on the new hinge side until it clicks into place.

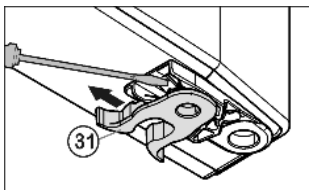


Fig. 7

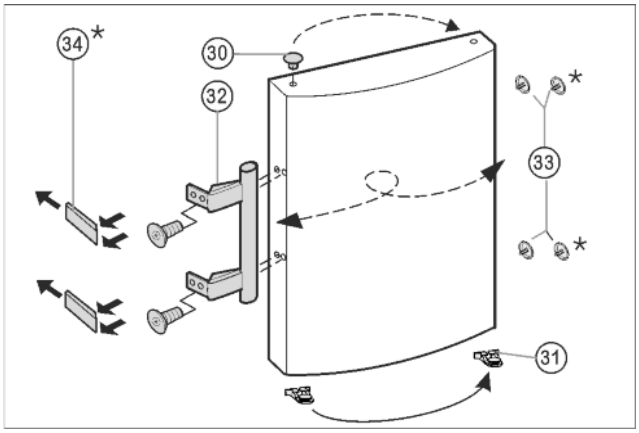


Fig. 8

- ▶ Lift the stopper *Fig. 8 (30)* out of the door bearing bush and transfer it.
- ▶ Detach door handle *Fig. 8 (32)*, stopper *Fig. 8 (33)* and pressure plates *Fig. 8 (34)* and transfer to the opposite side.
- ▶ When fitting the pressure plates on the opposite side, make sure they snap properly into place*

4.3.6 Fitting the lower door

- ▶ Place the lower door from above onto the lower bearing pin *Fig. 6 (22)*.
- ▶ Close the door.
- ▶ Place the plastic cap *Fig. 5 (10)* back onto the middle turn hinge *Fig. 5 (13)*.
- ▶ Place the middle bearing pin *Fig. 5 (11)* in the lower door, on the new hinge side, through the middle turn hinge *Fig. 5 (13)*.

4.3.7 Fitting the upper door

- ▶ Place the upper door on the middle bearing pin *Fig. 5 (11)*.
- ▶ Insert the upper turn hinge *Fig. 4 (3)* in the door on the new hinge side.
- ▶ Screw the upper turn hinge **firmly** into place **(with 4 Nm)** (2x Torx® 25) *Fig. 4 (4)*. Possibly make preliminary holes with a bradawl or use a cordless screwdriver.
- ▶ Apply the cover *Fig. 4 (1)* and cover *Fig. 4 (2)* to the opposite side from the outside and snap them into place.

4.3.8 Aligning the doors

- ▶ If necessary, align the doors to the appliance housing by way of the two oblong holes in the bottom turn hinge *Fig. 6 (25)* and middle turn hinge *Fig. 5 (13)*. To do so, unscrew the middle screw in the bottom turn hinge *Fig. 6 (25)*.

WARNING

Risk of injury due to the door dropping out!

If the bearing parts are not screwed into place firmly enough, the door may drop out. This may lead to severe injuries. What is more, the door may not close and therefore the appliance may fail to cool properly.

- ▶ Screw the turn hinges firmly into place with 4 Nm.
- ▶ Check all of the screws and retighten if necessary.

4.4 Insertion into a row of kitchen units

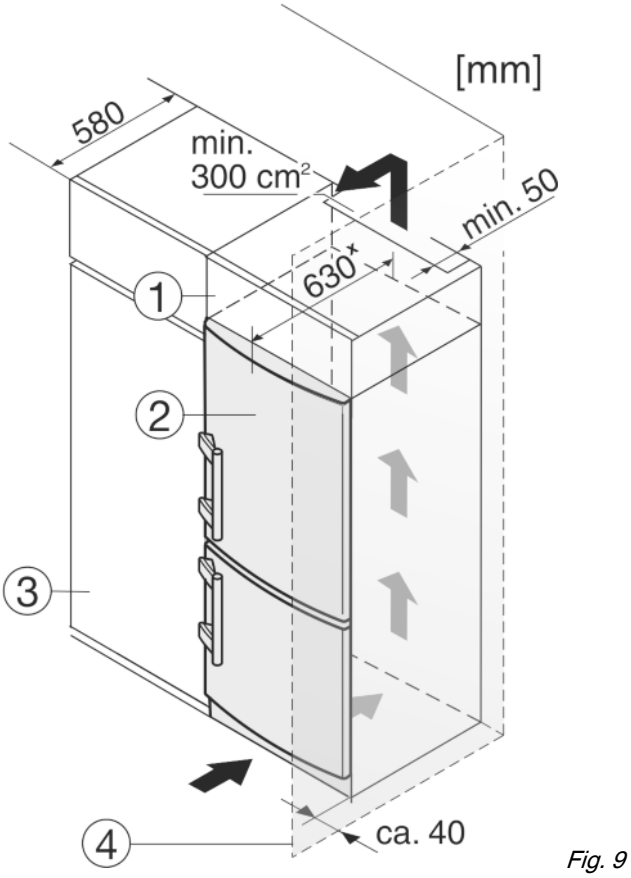


Fig. 9

(1) Stack cabinet
(2) Appliance
(3) Kitchen cabinet
(4) Wall

x For appliances supplied with wall spacers, the measurement increases by 35 mm (see 4.2) .

The appliance can be inserted into a row of kitchen units. To match the appliance *Fig. 9 (2)* to the height of the row of units, a suitable stack cabinet *Fig. 9 (1)* can be fitted above the appliance.

When installing with kitchen units (max. depth 580 mm), the appliance can be positioned directly next to the kitchen cabinet *Fig. 9 (3)*. The appliance will project by 34 mmx at the sides and 50 mmx in the centre of the appliance in relation to the kitchen cabinet front.

Ventilation requirements:

- At the back of the stack cabinet there has to be a ventilation duct of at least 50 mm depth throughout the width of the stack cabinet.
- The ventilation space under the ceiling has to be at least 300 cm².
- the larger the ventilation space, the more energy-saving the appliance is in operation.

If the appliance is installed with the hinges next to a wall *Fig. 9 (4)*, the distance between appliance and wall has to be at least 40 mm. This corresponds to the projection of the handle when the door is open.

4.5 Disposing of packaging

WARNING
Danger of suffocation due to packing material and plastic film!
▶ Do not allow children to play with packing material.

The packaging is made of recyclable materials:

- corrugated board/cardboard
- expanded polystyrene parts
- polythene bags and sheets
- polypropylene straps
- nailed wooden frame with polyethylene panel*

▶ Take the packaging material to an official collecting point.

4.6 Connecting the appliance

NOTICE
Risk of damage to the electronic control system!
▶ Do not use stand-alone inverters (conversion of d.c. to a.c./ three-phase) or energy saving plugs.

WARNING
Fire and overheating hazard!
▶ Do not use extension cables or multiple socket outlets.

The type of current (alternating current) and voltage at the installation site have to conform with the data on the type plate (see Appliance at a glance).

The socket must be properly earthed and fused. The tripping current for the fuse must be between 10 A and 16 A.

The socket must be easily accessible so that the appliance can be quickly disconnected from the supply in an emergency. It must be outside the area of the rear of the appliance.

▶ Check the electrical connection.
▶ Plug in the power plug.

4.7 Switching on the appliance

Note
▶ To switch on the entire appliance it is necessary only to switch on the freezer compartment.

Switch on the appliance approx. 2 hours before adding frozen food for the first time.

Do not load food to be frozen before the temperature display reads -18 °C.

4.7.1 Switching on the freezer compartment

▶ Press On/Off button, freezer compartment *Fig. 3 (17)*.
▷ The temperature display of the refrigerator compartment indicates the current temperature inside.
▷ The temperature display of the freezer compartment and the alarm symbol flash until the temperature is sufficiently low. If the temperature is above 0 °C, dashes flash. If it is below, the current temperature flashes.
▷ If “DEMO” is displayed, demo mode is activated. Please contact the after sales service.

5 Control

5.1 Brightness of the temperature display

You can adjust the brightness of the temperature display to the light conditions of the room in which the appliance is installed.

5.1.1 Adjusting the brightness

The brightness is adjustable between h0 (no illumination) and h5 (maximum luminosity).

▶ To activate the setting mode: press the SuperFrost button *Fig. 3 (18)* for about 5 s.
▷ The display indicates c.
▷ The menu symbol *Fig. 3 (10)* shines.
▶ Using the Up setting button, freezer compartment *Fig. 3 (15)* or Down setting button, freezer compartment *Fig. 3 (16)*, select h.
▶ To confirm: briefly press the SuperFrost button *Fig. 3 (18)*.
▶ To make the display brighter: press Up button, freezer compartment *Fig. 3 (15)*.
▶ To make the display darker: press Down button, freezer compartment *Fig. 3 (16)*.

▶ To confirm: press SuperFrost button *Fig. 3 (18)*.
▷ The brightness is adjusted to the new value.
▶ To deactivate the set-up mode: press On/Off button, freezer compartment *Fig. 3 (17)*.

-or-

▶ Wait for 5 minutes.

▷ The temperature is indicated again in the temperature display.

5.2 Child proofing

The child-proofing function enables you to make sure that the appliance is not inadvertently switched off by playing children.

5.2.1 Setting the child lock function

▶ To activate the setting mode: press SuperFrost button *Fig. 3 (18)* for about 5 s.
▷ c flashes on the display.
▷ The menu symbol *Fig. 3 (10)* shines.
▶ Briefly press the SuperFrost button *Fig. 3 (18)*.to confirm.

When cl is indicated in the display:

▶ Tto activate the child lock, briefly press the SuperFrost button *Fig. 3 (18)*.

▷ The child lock symbol *Fig. 3 (9)* shines. c flashes in the display.

When c0 is indicated in the display:

▶ to deactivate the child lock, briefly press the SuperFrost button *Fig. 3 (18)*.
▷ The child lock symbol *Fig. 3 (9)* goes out. c flashes in the display.
▶ To deactivate the set-up mode: press On/Off button, freezer compartment *Fig. 3 (17)*.

-or-

▶ Wait for 5 minutes.

▷ The temperature is indicated again in the temperature display.

5.3 Door alarm

For refrigerator / BioFresh compartment and freezer compartment
If the door is open for longer than 60 seconds, the audible warning will sound.

The audible alarm is automatically silenced when the door is closed.

5.3.1 Muting the door alarm

The audible alarm can be muted when the door is open. The sound switch-off function is active as long as the door is left open.

▶ Press alarm button *Fig. 3 (19)*.
▷ The door alarm is silenced.

5.4 Temperature alarm

The audible alarm sounds if the freezer temperature is not cold enough.

The temperature display and the alarm symbol *Fig. 3 (14)* flash at the same time.

The cause of the temperature being too high may be:

- warm fresh food was placed inside
- too much warm ambient air flowed in when rearranging and removing food
- power failure for some time
- the appliance is faulty

The audible alarm is automatically silenced, the alarm symbol *Fig. 3 (14)* goes out and the temperature display stops flashing when the temperature is sufficiently cold again.

If the alarm status persists: (see Malfunction).

5.4.1 Muting the temperature alarm

The audible alarm can be muted. When the temperature is sufficiently cold again, the alarm function is active again.

▶ Press alarm button *Fig. 3 (19)*.
▷ The audible alarm is silenced.

5.5 Refrigerator compartment

The natural circulation of air in the refrigerator compartment results in zones differing in temperature. It is coldest directly above the plate separating off the BioFresh zone and at the rear wall. It is warmest at the top front of the compartment and in the door.

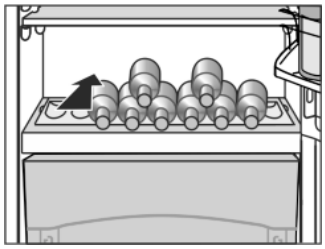
5.5.1 Food refrigeration

Note
The energy consumption increases and the cooling performance decreases if the ventilation is inadequate.
▶ Always keep the air slits of the fan free.

▶ Place butter and preserves in the upper area and in the door (see Appliance at a glance).
▶ Use recyclable plastic, metal, aluminium and glass containers and cling film for wrapping.
▶ Use the front area of the refrigerator compartment floor only for briefly putting down cooled products, e.g. when rearranging and sorting. However do not leave cooled products there otherwise they may be pushed back or tipped over when the door is closed.
▶ Do not store food too close together to enable good air circulation.
▶ To safeguard bottles from tipping over: move the bottle holder.

At the base of the refrigerator compartment, the integrated bottle shelf or alternatively the glass shelf can be used:

- ▶ To use the bottle shelf: store the glass shelf compactly under the bottle shelf.
- ▶ Place the bottles with the base pointing backwards facing the rear wall.
  If the bottles project beyond the bottle shelf:
- ▶ set the lower door rack one position higher.



5.5.2 Setting the temperature

The temperature depends on the following factors:

- the frequency of opening the door
- the room temperature of the installation location
- the type, temperature and quantity of the food

The temperature can be set from 9 °C to 3 °C, the recommended temperature is 5 °C.

- ▶ For a higher temperature setting: press Up button, refrigerator compartment *Fig. 3 (4)*.
- ▶ For a lower temperature setting: press Down button, refrigerator compartment *Fig. 3 (5)*.
- ▷ When the button is pressed for the first time, the previously set value is indicated, flashing, in the refrigerator compartment temperature display.
- ▶ To change the temperature in 1 °C steps: briefly press the button.
- ▶ To change the temperature continuously: hold down the button.
- ▷ The value is displayed flashing during the setting operation.
- ▷ The actual temperature is displayed about 5 s after the last press of a button. The temperature slowly adjusts to the new value.

5.5.3 SuperCool

With SuperCool you switch to the highest cooling performance to reach lower cooling temperatures. Use SuperCool, to rapidly cool large amounts of food.

When SuperCool is activated, the fan* may run. The appliance operates with maximum cooling performance, which means that the noise of the refrigeration unit may be temporarily louder.

The SuperCool function uses slightly more energy.

Cooling with SuperCool

- ▶ Briefly press SuperCool button *Fig. 3 (2)*.
- ▷ The SuperCool symbol *Fig. 3 (7)* lights up in the display.
- ▷ The cooling temperature drops to the coldest value. SuperCool is activated.
- ▷ SuperCool is automatically deactivated after 6 to12 hours The appliance continues to operate in the energy-saving, normal mode.

To prematurely deactivate SuperCool

- ▶ Briefly press SuperCool button *Fig. 3 (2)*.
- ▷ The SuperCool symbol *Fig. 3 (7)* goes out in the display.
- ▷ SuperCool is deactivated.

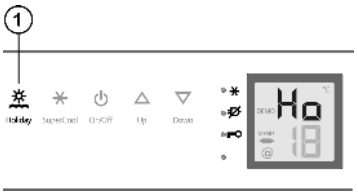
5.5.4 Holiday mode

The holiday mode saves energy and prevents odour from occurring when the door of the refrigerator compartment stays closed for a lengthy period.

The freezer compartment remains in operation in the holiday mode.

Activating the holiday mode

- ▶ Remove all the food from the refrigerator and BioFresh compartment, otherwise they will perish..
- ▶ Press the holiday button *Fig. 3 (1)* for 3 sec.



- ▷ The holiday mode is activated. The display indicates **Ho**.

Deactivating the holiday mode

- ▶ Briefly press the holiday button *Fig. 3 (1)*.
- ▷ The holiday mode is deactivated.
- ▷ The current cooling temperature is indicated in the display.

5.5.5 Shelves

Moving or removing shelves

The shelves have stops preventing them from being unintentionally pulled out.

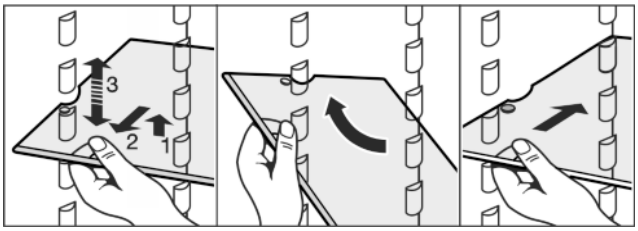
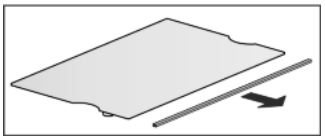


Fig. 10

- ▶ Lift the shelf slightly and pull forward a little.
- ▶ Adjust the height of the shelf. To do so, push the cut-outs along the supports.
- ▶ In order to remove the shelf fully, place it at a slant and pull out towards the front.
- ▶ Re-insert shelves at the required height. The stops must face downwards and lie behind the front shelves.

Dismantling shelves

- ▶ The shelves can be dismantled for cleaning.



5.5.6 Using the sectioned shelf

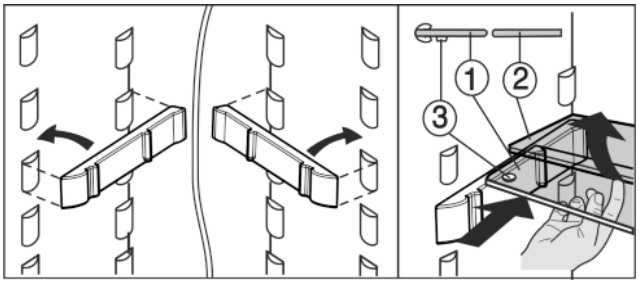


Fig. 11

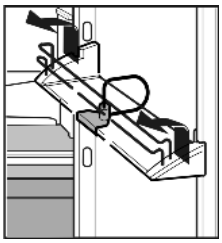
- ▶ The glass plate (1) with pull-out stops must be at the front so that the stops (3) face downwards.

*** Depending on model and options**

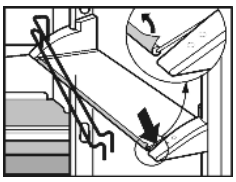
5.5.7 Door racks

Moving the storage rack

▶ Remove storage rack according to illustration.



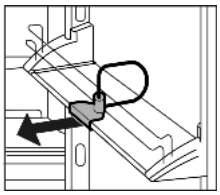
Dismantling door racks



▶ The door racks can be dismantled for cleaning.

5.5.8 Removing the bottle holder

▶ Remove the bottle holder according to the illustration.



5.6 BioFresh compartment

The BioFresh compartment allows some types of fresh food to be stored up to three times longer than in conventional refrigerators, without compromising quality.

For food with an indicated best before date, the date specified on the packaging always applies.

5.6.1 HydroSafe

The HydroSafe at the moist setting is suited for storing unwrapped salad, vegetables and fruit with high inherent moisture. When the drawer is well filled, a dewy climate with up to 90% humidity is established. The humidity in the compartment depends on the moisture content of the food stored and on the opening frequency. You can set the humidity yourself.

5.6.2 DrySafe

The DrySafe is suitable for storing dry or wrapped food (e.g. dairy products, meat, fish, sausages). A relatively dry storage climate is established here.

5.6.3 Storing food

Note

▶ Vegetables sensitive to cold, such as cucumbers, aubergines, semi-ripe tomatoes, zucchinis and all tropical fruits sensitive to cold, do not belong in the BioFresh compartment.

▶ To prevent food spoilage due to transfer of germs: Store unwrapped animal and vegetable products separate from one another in the drawers. This also applies to different sorts of meat.
If food has to be stored together due to lack of space:

▶ wrap the food.

5.6.4 Storage times

Standard values for storage time at low humidity			
Butter	up to	90	days
Hard cheese	up to	110	days
Milk	up to	12	days
Sausage, cold meat	up to	9	days
Poultry	up to	6	days
Pork	up to	7	days
Beef	up to	7	days
Game	up to	7	days

Note

▶ Please note that protein-rich food deteriorates faster, i.e. shellfish and crustaceans deteriorate faster than fish, fish faster than meat.

Standard values for storage time at high humidity			
Vegetables, salad			
Artichokes	up to	14	days
Celery	up to	28	days
Cauliflower	up to	21	days
Broccoli	up to	13	days
Chicory	up to	27	days
Lamb's lettuce	up to	19	days
Peas	up to	14	days
Kale	up to	14	days
Carrots	up to	80	days
Garlic	up to	160	days
Kohlrabi	up to	55	days
Lettuce	up to	13	days
Herbs	up to	13	days
Leek	up to	29	days
Mushrooms	up to	7	days
Radishes	up to	10	days
Brussels sprouts	up to	20	days
Asparagus	up to	18	days
Spinach	up to	13	days
Savoy cabbage	up to	20	days
Fruit			
Apricots	up to	13	days
Apples	up to	80	days
Pears	up to	55	days
Blackberries	up to	3	days
Dates	up to	180	days
Strawberries	up to	7	days
Figs	up to	7	days
Blueberries	up to	9	days
Raspberries	up to	3	days

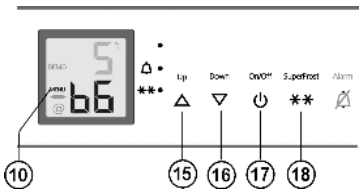
Standard values for storage time at high humidity			
Currants	up to	7	days
Sweet cherries	up to	14	days
Kiwis	up to	80	days
Peaches	up to	13	days
Plums	up to	20	days
Cranberries	up to	60	days
Rhubarb	up to	13	days
Gooseberries	up to	13	days
Grapes	up to	29	days

5.6.5 Adjusting the temperature in the BioFresh compartment

The temperature is regulated automatically. At a temperature of 5 °C in the refrigerator compartment, the temperature in the BioFresh compartment is between 0 °C and 3 °C.

You can adjust the temperature slightly colder or warmer. The temperature can be adjusted from **b1** (coldest temperature) to **b9** (warmest temperature). The presetting is **b5**. With the **b1** to **b4** values, the temperature can drop below 0 ° C and therefore food can freeze slightly as a result.

▶ To activate the setting mode: press the SuperFrost button *Fig. 3 (18)* for about 5 s.
▷ The menu symbol *Fig. 3 (10)* shines.
▷ **c** flashes on the display.
▶ To confirm: briefly press the SuperFrost button.
▶ To set the temperature higher: press Up button, freezer compartment *Fig. 3 (15)*.
▶ To set the temperature lower: press Down button, freezer compartment *Fig. 3 (16)*.
▶ To confirm: press SuperFrost button.
▷ The temperature slowly adjusts to the new value.



▶ To deactivate the setting mode: press On/Off button, freezer compartment *Fig. 3 (17)*.

-or-

▶ Wait for 5 minutes.

▷ The temperature is indicated again in the temperature display.

5.6.6 Setting the humidity in the HydroSafe

▶ Low humidity: move the regulator to the left.
▶ High humidity: move the regulator to the right.

5.6.7 Drawers

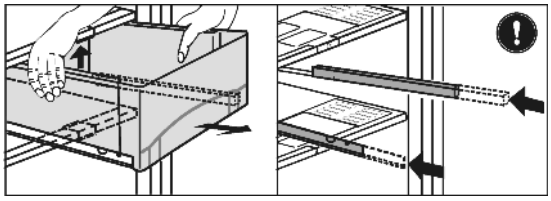


Fig. 12

▶ Pull out the drawer, lift it at the back and draw it forwards for removal.
▶ Push the rails in again!

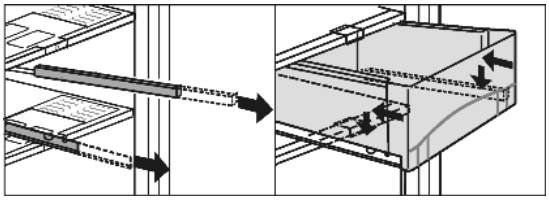


Fig. 13

▶ Pull out the rails.
▶ Attach the drawer to the rails and push it in until it engages audibly at the back.

5.6.8 Humidity control plate

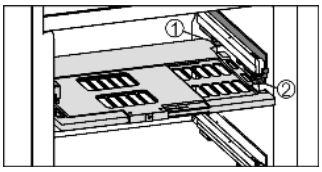


Fig. 14

▶ To remove the humidity control plate: Having removed the drawers, carefully draw the plate forwards and lower it for removal.
▶ To insert the humidity control plate: Insert the cover mouldings of the plate into the rear holder *Fig. 14 (1)* from underneath and engage them in the holder *Fig. 14 (2)* at the front.

5.7 Freezer compartment

You can store frozen food, make ice cubes and freeze fresh food in the freezer compartment.

5.7.1 Freezing food

The rating plate indicates the maximum quantity of fresh food you can freeze within 24 hours (see Appliance at a glance) under “Freezing capacity ... kg/24h”.

The maximum load of frozen food for the drawers is 25 kg each and for the shelves 35 kg each.

CAUTION
Risk of injury due to broken glass!
Bottles and cans containing drinks may burst when being frozen. This applies particularly to sparkling drinks.
▶ Do not freeze bottles and cans containing drinks!

In order that the food is rapidly frozen through to the core, do not exceed the following quantities per pack:

- Fruit, vegetables up to 1 kg
- Meat up to 2.5 kg

▶ Pack the food in portions in freezer bags, reusable plastic, metal or aluminium containers.

5.7.2 Thawing food

- in the refrigerator compartment
- in a microwave oven
- in a conventional or fan oven
- at room temperature

▶ Food once thawed should be re-frozen only in exceptional cases.

5.7.3 Setting the temperature

The appliance is pre-set for normal operation.

The temperature can be set between -16 °C and -26 °C, the recommended temperature is -18 °C.

▶ To set the temperature higher: press Up button, freezer compartment *Fig. 3 (15)*.
▶ To set the temperature lower: press Down button, freezer compartment *Fig. 3 (16)*.
▷ When the button is pressed the first time, the previous value is indicated in the temperature display of the freezer compartment.
▶ To change the temperature in 1 °C steps: briefly press the button.

-or-

▶ To change the temperature continuously: hold down the button.

▷ The value is displayed flashing during the setting operation.
▷ The actual temperature is displayed approx. 5 seconds after the button is last pressed. The temperature gradually adjusts to the new value.

5.7.4 SuperFrost

With this function you can freeze fresh food quickly through to the core. The appliance operates with maximum refrigeration. The noise of the refrigeration unit may be temporarily louder as a result.

The maximum amount of fresh food which can be frozen in 24 h is indicated on the type plate under “freezing capacity ... kg/ 24h”. This amount varies according to the model and climate rating.

You have to activate SuperFrost in good time, depending on how much fresh food is to be frozen: about 6 hours before placing the food inside in case of small amounts and about 24 hours in advance in case of the maximum amount of food to be frozen.

Wrap produce and spread it out as far as possible. Do not allow produce to be frozen to touch produce that is already frozen to prevent the latter thawing.

You do not have to activate SuperFrost in the following cases:

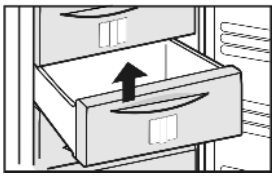
- when placing frozen food in the freezer
- when freezing up to approx. 2 kg fresh food daily

Freezing with SuperFrost

▶ Briefly press the SuperFrost button *Fig. 3 (18)* once.
▷ The SuperFrost symbol *Fig. 3 (13)* shines.
▷ The freezing temperature drops, the appliance operates with the maximum cooling capacity.
For a smaller quantity of produce to be frozen:
▶ wait approx. 6 h.
▶ Place wrapped produce in the top drawers.
For the maximum quantity of produce to be frozen:
▶ wait approx. 24 h.
▶ Remove top drawers and place produce directly on the top shelves.
▷ SuperFrost is automatically deactivated. Depending on the quantity placed inside, after 30 h at the earliest, 65 h at the latest.
▷ The SuperFrost symbol *Fig. 3 (13)* extinguishes once freezing is completed.
▶ Place produce in the drawers and push the latter back in again.
▷ The appliance continues to operate in the energy-saving, normal mode.

5.7.5 Drawers

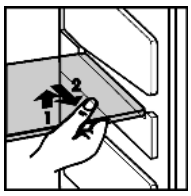
Note
The energy consumption increases and the cooling performance decreases if there is insufficient ventilation.
For appliances with NoFrost:
▶ Leave the bottom drawer in the appliance!
▶ Always keep the air slits of the fan free at the rear wall!



▶ To store frozen food directly on the shelves: pull the drawer forwards and lift it out.

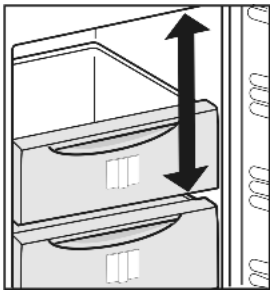
5.7.6 Shelves

▶ To remove the shelf: lift up at the front and pull out.
▶ To put the shelf back: simply push in as far as it will go.



5.7.7 VarioSpace

Apart from being able to remove the drawers, you can also remove the shelves, creating space for large items of frozen food. Poultry, meat, large pieces of game and high bakery products can be frozen in one piece and prepared.
▶ The maximum load of frozen food for the drawers is 25 kg each and for the shelves 35 kg each.



5.7.8 Information system

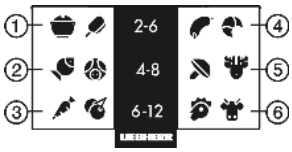


Fig. 15

(1) Ready-made meals, ice cream
(2) Pork, fish
(3) Fruit, vegetables
(4) Sausages, bread
(5) Game, mushrooms
(6) Poultry, beef/veal

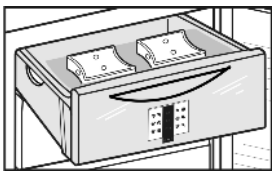
The figures indicate the storage time in months for several types of frozen food in each case. Storage times given are guide times.

5.7.9 Cold storage accumulators

The cold storage accumulators prevent the temperature from rising too fast in the event of power failure.

Using cold storage accumulators

▶ Place the cold storage accumulators in the top freezer compartment to save space.
▶ Place the frozen cold storage accumulators on the frozen food in the upper front area of the freezer compartment.



6 Maintenance

6.1 Defrosting with NoFrost

The NoFrost system automatically defrosts the appliance.

Refrigerator compartment:

The defrost water evaporates due to the compressor heat.

▶ Regularly clean the drain opening to allow the water to flow away (see 6.2) .

Freezer compartment:

The moisture condenses on the evaporator, is periodically defrosted and evaporates.

▶ The appliance does not have to be manually defrosted.

6.2 Cleaning the appliance

WARNING

Risk of injury and damage as a result of hot steam!
Hot steam can lead to burns and can damage the surfaces.

▶ Do not use any steam cleaners!

NOTICE

Incorrect cleaning damages the appliance!

▶ Do not use cleaning agents in concentrated form.
▶ Do not use any scouring or abrasive sponges or steel wool.
▶ Please do not use any aggressive, scouring, sand-, chloride-, chemical- or acid-based cleaning agents.
▶ Do not use chemical solvents.
▶ Do not damage or remove the type plate on the inside of the appliance. It is important for the customer service.
▶ Do not pull off, bend or damage cables or other components.
▶ Do not allow any cleaning water to enter the drain channel, ventilation grille or electrical parts.
▶ Please use soft cleaning cloths and a universal pH-neutral cleaning agent.
▶ Please use cleaning and care products suitable for contact with foodstuffs in the appliance interior.

▶ **Empty appliance.**
▶ **Pull out the power plug.**

▶ Clean **plastic outer and inner surfaces** with lukewarm water and a little washing-up liquid.

Do not apply stainless steel cleaning agent to glass or plastic surfaces to prevent them from being scratched. Darker areas at the beginning and quite an intensive colour of the stainless steel surface are normal.

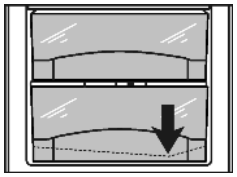
NOTICE

The stainless steel doors are provided with a high-quality surface coating and must not be treated using the accompanying care product.

Otherwise the surface coating will be affected.

▶ Wipe the coated **door surfaces** using a soft, clean cloth only. In case of stubborn dirt, use a little water or a neutral cleaning agent. A microfibre cloth can be optionally used.
▶ If the **stainless steel side walls** are dirty, clean them using a commercially available stainless steel cleaning agent. Then evenly apply the accompanying stainless steel care product, making strokes in the direction of the grain.
▶ Wipe **side walls with a paint finish** using a soft, clean cloth only. In case of stubborn dirt, use a little water or a neutral cleaning agent. A microfibre cloth can be optionally used.

▶ Clean **drain hole**: Remove deposits with a narrow instrument, e.g. a cotton bud.



▶ Most of the **parts** can be dismantled for cleaning: see the relevant chapter.
▶ Clean **items of equipment** by hand with lukewarm water and a little washing-up liquid.
▶ Only use a damp cloth to clean the **telescopic rails**. The grease in the runners is for lubrication purposes and must not be removed.

After cleaning:

▶ Wipe dry the appliance and items of equipment.
▶ Connect the appliance and switch it on again.
▶ Switch on SuperFrost (see 5.7.4) .
When the temperature is sufficiently cold:
▶ Put the food back inside.

6.3 Customer service

First check whether you can correct the fault yourself by reference to the list (see Malfunction). If this is not the case, please contact the customer service whose address is given in the enclosed customer service list.

WARNING

Risk of injury if repair work is not carried out professionally!

▶ Have any repairs and action - not expressly specified - on the appliance and mains cable carried out by service personnel only. (see Maintenance)

▶ Read the appliance designation *Fig. 16 (1)*, service No. *Fig. 16 (2)* and serial No. *Fig. 16 (3)* off the type plate located inside the appliance on the left-hand side.

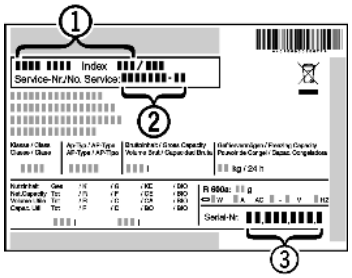


Fig. 16

▶ Notify the customer service, specifying the fault, appliance designation *Fig. 16 (1)*, service No. *Fig. 16 (2)* and serial No. *Fig. 16 (3)*.
▷ This will help us to provide you with a faster and more accurate service.
▶ Keep the appliance closed until the customer service arrives.
▷ The food will stay cool longer.
▶ Pull out the mains plug (not by pulling the connecting cable) or switch off the fuse.

7 Malfunctions

Your appliance is designed and manufactured for a long life span and reliable operation. If a malfunction nonetheless occurs during operation, check whether it is due to a handling error. In this case you will have to be charged for the costs incurred, even during the warranty period. You may be able to rectify the following faults yourself:

Appliance does not work.

→ The appliance is not switched on.
▶ Switch on the appliance.
→ The power plug is not properly inserted in the wall socket.
▶ Check power plug.
→ The fuse of the wall socket is not in order.
▶ Check fuse.

The compressor runs for a long time.

→ The compressor switches to a low speed when little cold is needed. Although the running time is increased as a result, energy is saved.
▶ This is normal in energy-saving models.
→ SuperFrost is activated.

▶ The compressor runs for longer in order to rapidly cool the food. This is normal.
→ SuperCool is activated.
▶ The compressor runs for longer in order to rapidly cool the food. This is normal.

A LED on the bottom rear of the appliance (at the compressor) flashes regularly every 15 seconds*.
→ The inverter is equipped with a diagnostic LED.
▶ The flashing is normal.

Excessive noise.
→ Due to the various speed steps, speed-regulated* compressors can generate different running noises.
▶ The sound is normal.

A bubbling and gurgling noise.
→ This noise comes from the refrigerant flowing in the refrigeration circuit.
▶ The sound is normal.

A quiet clicking noise.
→ The noise is produced whenever the refrigeration unit (motor) automatically switches on or off.
▶ The sound is normal.

A hum. It is briefly a little louder when the refrigeration unit (the motor) switches on.
→ The refrigeration increases automatically when the SuperFrost, function is activated, fresh food has just been placed in the appliance or the door has been left open for a while.
▶ The sound is normal.
→ The refrigeration increases automatically when the SuperCool function is activated, fresh food has just been placed in the appliance or the door has been left open for a while.
▶ The sound is normal.
→ The ambient temperature is too high.
▶ Solution: (see 1.2)

A low hum.
→ The sound is produced by air flow noise of the fan.
▶ The sound is normal.

Vibratory noise.
→ The appliance is not fixed to the ground. The running of the cooling unit therefore makes objects and adjacent furniture vibrate.
▶ Adjust appliance via the height-adjustable feet.
▶ Move bottles and containers apart.

The temperature display indicates: F0 to F9
→ There is a fault.
▶ Please contact the after-sales service (see Maintenance).

Power failure flashes in the temperature display . The highest temperature reached during power failure is indicated in the temperature display.
→ The freezer temperature rose too high over the last hours or days due to a power failure or power interruption. When the power interruption is over, the appliance will continue to operate in the last temperature setting.
▶ To cancel the display of the warmest temperature: press alarm button *Fig. 3 (19)*.
▶ Check the quality of the food. Do not consume spoiled food. Do not re-freeze thawed food.

DEMO shines in the temperature display.
→ The demo mode is activated.
▶ Please contact the after-sales service (see Maintenance).

The outer surfaces of the appliance are warm*.
→ The heat of the refrigeration circuit is used to prevent condensate from forming.
▶ This is normal.

The temperature is not cold enough.
→ The door of the appliance is not properly closed.
▶ Close the door of the appliance.
→ Insufficient ventilation.
▶ Clear ventilation grilles.
→ The ambient temperature is too high.
▶ Solution: (see 1.2) .
→ The appliance was opened too frequently or for too long.
▶ Wait to see whether the appliance reaches the required temperature by itself. If not, please contact the after sales service (see Maintenance).
→ Too much fresh food was placed inside without SuperFrost.
▶ Solution: (see 5.7.4)
→ The temperature is incorrectly set.
▶ Set the temperature to a colder setting and check after 24 hours.
→ The appliance is too close to a source of heat (stove, heater etc).
▶ Change the position of the appliance or the source of heat.

The interior light is not on.
→ The appliance is not switched on.
▶ Switch on the appliance.
→ The door was open longer than 15 min.
▶ The interior light automatically switches off if the door has been open for about 15 min.
→ The LED illumination is defective or the cover is damaged:

WARNING
Risk of injury due to electric shock!
Live parts are located under the cover.
▶ Have the LED interior light changed or repaired only by the customer service or by specialized personnel trained for the purpose.

WARNING
Danger of injury by LED lamp!
The light intensity of the LED illumination corresponds to laser class 1/1M.
If the cover is defective:
▶ Do not look into the illumination with optical lenses from the immediate proximity. This can cause injury to the eyes.

8 Decommissioning

8.1 Switching off the appliance

Note
▶ To switch off the entire appliance it is necessary only to switch off the freezer compartment.

8.1.1 Switching off the freezer compartment

▶ Press the freezer compartment On/Off button *Fig. 3 (17)* for approx. 2 seconds.
▷ The temperature displays are dark. The appliance is switched off.

8.1.2 Switching off the refrigerator compartment with BioFresh compartment

Note
▶ The refrigerator compartment can be switched off separately, if required.

▶ Press the refrigerator compartment On/Off button *Fig. 3 (3)* for approx. 2 seconds.
▷ The temperature display of the refrigerator compartment *Fig. 3 (8)* is dark. The refrigerator compartment and BioFresh compartment are switched off.

8.2 Taking the appliance out of service

▶ Empty the appliance.
▶ Pull out the power plug.
▶ Clean the appliance (see 6.2) .

▶ Leave the door open to prevent odour.

9 Disposing of the appliance

The appliance contains some reusable materials and should be disposed of properly - not simply with unsorted household refuse. Appliances which are no longer needed must be disposed of in a professional and appropriate way, in accordance with the current local regulations and laws.

When disposing of the appliance, ensure that the refrigeration circuit is not damaged to prevent uncontrolled escape of the refrigerant it contains (data on type plate) and oil.
▶ Disable the appliance.
▶ Pull out the plug.
▶ Cut through the connecting cable.

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